

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(SUPPLEMENTARY SHEET)

International File No. PCT/DE2004/001408

Re Point V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: US-A-6,006,143 (WELSKOPF FRED ET AL) December 21, 1999
(1999-12-21)
- D2: FR-A-2 736 226 (TEXTON) January 3, 1997 (1997-01-03)

The present application does not fulfill the requirements of Article 33(1) PCT, because the object of Claim 1 is not novel as defined in Article 33(2) PCT.

V.1 Document D1 discloses (the references in parentheses relate to this document): a

method for bidirectional single-wire data transmission of data information between a control unit and at least one peripheral unit having the following steps (column 3, lines 20-30):

generating a first current flow from the control unit to the peripheral unit during first time slots via a single-wire line to transmit voltage-coded or current-coded information from the control unit to the peripheral unit (column 4, lines 59-67); and

generating a second current flow from the peripheral unit to the control unit during second time slots via the single-wire line to transmit voltage-coded or current-

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coded information from the peripheral unit to the control unit (column 5, lines 5-14);

the first and second time slots being implemented so they do not mutually overlap (column 4, lines 5-18); and

generating, in the first and/or second time slots, additional information to be transmitted and/or uploaded, which is transmitted as digital or analog signals by modulating the current or the voltage of the single-wire line and is analyzed in the control unit or the peripheral unit (column 5, lines 5-14).

The object of Claim 1 is therefore not novel.

V.2 In addition, Document D2 discloses (the references in parentheses relate to this document): a

method for bidirectional single-wire data transmission of data information between a control unit and at least one peripheral unit having the following steps (page 1, lines 1-5):

generating a first current flow from the control unit to the peripheral unit during first time slots via a single-wire line to transmit voltage-coded or current-coded information from the control unit to the peripheral unit (page 2, lines 32-37); and

generating a second current flow from the peripheral unit to the control unit during second time slots via the single-wire line to transmit voltage-coded or current-coded information from the peripheral unit to the control unit (page 2, lines 32-37);

the first and second time slots being implemented so they do not mutually overlap (page 1, lines 21-28); and

generating, in the first and/or second time slots, additional information to be transmitted and/or uploaded, which is transmitted as digital or analog signals by modulating the current or the voltage of the single-wire line and is analyzed in the control unit or the peripheral unit (page 1, lines 21-28).

The object of Claim 1 is therefore not novel.

- V.3 The same reasoning applies correspondingly for independent Claim 9. The object of Claim 9 is therefore not novel (Article 33 (2) PCT).
- V.4 Dependent Claims 2 through 8 and 10 through 13 contain no features which, in combination with the features of any claim to which they refer, fulfill the requirements of the PCT in regard to novelty, see Documents D1 and D2 and the corresponding citations specified in the search report.